

Application/Control Number: 10/056,176

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Art Unit: 17~~54~~52

EXAMINER'S AMENDMENT

Please cancel claims 32-56 submitted 6-28-04

Claims 32-56 submitted 8-10-04 have been renumbered 57-81.

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1-31. (Canceled)

57
32. (New) A portable disposable fuel-battery unit for use with a system including a fuel cell, a system fuel connector operably connected to the fuel cell, and a system electrical connector, the portable disposable fuel-battery unit comprising:

a fuel-battery container including a fuel compartment having fuel stored therein and a battery compartment having a battery stored therein;

a fuel-battery unit fuel connector, operably connected to the fuel compartment, adapted to be connected to the system fuel connector such that fuel can flow out of the fuel-battery container; and

a fuel-battery unit electrical connector, operably connected to the battery, adapted to be connected to the system electrical connector.

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33. (New) A portable disposable fuel-battery unit as claimed in claim 32, wherein the fuel comprises hydrogen. 57

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34. (New) A portable disposable fuel-battery unit as claimed in claim 32, wherein the fuel comprises methanol. 57

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35. (New) A portable disposable fuel-battery unit as claimed in claim 32, wherein the fuel-battery container includes only a fuel compartment and a battery compartment. 57

⁶¹
36. (New) An apparatus, comprising:
a fuel cell system including
at least one fuel cell,
a system fuel connector operably connected to the fuel cell, and
a system electrical connector; and
a portable disposable fuel-battery unit including
a fuel-battery container including a fuel compartment having fuel
stored therein and a battery compartment having a battery stored therein,
a fuel-battery unit fuel connector, operably connected to the fuel
compartment, adapted to be connected to the system fuel connector such that fuel
can flow out of the fuel-battery container to the at least one fuel cell, and
a fuel-battery unit electrical connector, operably connected to
the battery, adapted to be connected to the system electrical connector.

⁶²
⁶¹
37. (New) An apparatus as claimed in claim 36, wherein the fuel comprises
hydrogen.

⁶³
38. (New) An apparatus as claimed in claim 36, wherein the fuel comprises
methanol.

⁶⁴
39. (New) An apparatus as claimed in claim 36, wherein the fuel-battery
container includes only a fuel compartment and a battery compartment.

⁶⁵
40. (New) An apparatus as claimed in claim 36, wherein the fuel cell
system includes a plurality of fuel cells.

⁶⁶
41. (New) An apparatus as claimed in claim 36, wherein the fuel cell
system includes an outer shell defining a chamber, the fuel-battery container is
located within the chamber and the at least one fuel cell is not located within the
chamber.

⁶⁷
42. (New) An apparatus as claimed in claim 36, wherein the fuel-battery
container and fuel cell system are adapted to be snap-connected to one another.

⁶⁸
~~43.~~ (New) A device, comprising:
an electrical load;
a fuel cell system including
at least one fuel cell connected to the electrical load,
a system fuel connector operably connected to the fuel cell, and
a system electrical connector; and
a portable disposable fuel-battery unit including
a fuel-battery container including a fuel compartment having fuel
stored therein and a battery compartment having a battery stored therein,
a fuel-battery unit fuel connector, operably connected to the fuel
compartment, adapted to be connected to the system fuel connector such that fuel
can flow out of the fuel-battery container to the at least one fuel cell, and
a fuel-battery unit electrical connector, operably connected to
the battery, adapted to be connected to the electrical load.

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~~44.~~ (New) A device as claimed in claim ~~43~~⁶⁸, wherein the fuel comprises
hydrogen.

⁷⁰
~~45.~~ (New) A device as claimed in claim ~~43~~⁶⁸, wherein the fuel comprises
methanol.

⁷¹
~~46.~~ (New) A device as claimed in claim ~~43~~⁶⁸, wherein the fuel-battery
container includes only a fuel compartment and a battery compartment.

⁷²
~~47.~~ (New) A device as claimed in claim ~~43~~⁶⁸, wherein the fuel cell system
includes a plurality of fuel cells.

⁷³
~~48.~~ (New) A device as claimed in claim ~~43~~⁶⁸, wherein the fuel cell system
includes an outer shell defining a chamber, the fuel-battery container is located
within the chamber and the at least one fuel cell is not located within the chamber.

⁷⁴
49. (New) A device as claimed in claim ⁶⁸~~48~~, wherein the fuel-battery container and fuel cell system are adapted to be snap-connected to one another.

⁷⁵
50. (New) A method of fueling an apparatus that includes a fuel cell and an electrical load connected to the fuel cell, the method comprising the steps of:

connecting a single fuel-battery cartridge that includes both fuel and a battery to the fuel cell and to the electrical load;

supplying power to the electrical load with the battery; and

transferring fuel from the fuel-battery cartridge to the fuel cell.

⁷⁶
51. (New) A method as claimed in claim ⁷⁵~~50~~, wherein the fuel comprises hydrogen.

⁷⁷
52. (New) A method as claimed in claim ⁷⁵~~50~~, wherein the fuel comprises methanol.

⁷⁸
53. (New) A method as claimed in claim ⁷⁵~~50~~, further comprising the step of: charging the battery with energy from the fuel cell.

⁷⁹
54. (New) A portable disposable fuel-battery unit for use with a system including a fuel cell, a system fuel connector operably connected to the fuel cell, and a system electrical connector, the portable disposable fuel-battery unit comprising:

a fuel container including a fuel compartment having fuel stored therein;

a battery carried by the fuel container;

a fuel-battery unit fuel connector, operably connected to the fuel compartment, adapted to be connected to the system fuel connector such that fuel can flow out of the fuel container; and

a fuel-battery unit electrical connector, operably connected to the battery, adapted to be connected to the system electrical connector.

⁸⁰
55. (New) A portable disposable fuel-battery unit as claimed in claim ⁷⁹~~54~~, wherein the fuel comprises hydrogen.

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~~81~~ 56. (New) A portable disposable fuel-battery unit as claimed in claim ~~54~~⁷⁹,
wherein the fuel comprises methanol.

Amendments to the Drawings:

The attached sheet of drawings includes changes to Figure 2. This sheet, which includes only Figure 2, replaces the original sheet including Figure 2. In Figure 2, the lead line associated with reference numeral 220 has been extended and reference numeral 225 and the associated lead line have been added.

Attachment: Replacement Sheet
Annotated Sheet Showing Changes